SECRET

OUT 69224

1970 JAN 27 14 27Z

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P 271412Z JAN 70
FM NPIC WASHDC
TO RHCOAAA/SAC OFFUTT AFB OMAHA NEB
RHCOAAA/544TH ARTW OFFUTT AFB OMAHA NEB
RUCILBA/100TH SRW OL 19 MCCOY AFB FLA
RUVRPIA/WRAMA/WRNWA WARNER ROBBINS AFB, GA
RUWMODA/100TH SRW DAVIS MONTHAN AFB ARIZ
RUWMODA/12 SAD DAVIS MONTHAN AFB ARIZ
RUEBJRA/NAVRECONTECHSUPPCEN SUITLAND MD
RUEAIIA/CIA WASH DC
RUCRJCS/DIA
RUWBKNA/15TH AF MARCH AFB RIVERSIDE CALIF
RUEFHQA/HQS USAF
BT
S E C R E T CITE NPIC 7864.
SAC FOR DIRI, DOSR, DISD, DM4C, DPLC; 100 SRW DAVIS MONTHAN AFB FOR DO, DCOI, DCM, AEMS; 12 SAD FOR MD; DIA FOR DIAXX-1; HQ USAF FOR AFIGOS, AFXOTR; 15TH AF FOR DI, DO, DM4C.
SUBJECT: EVALUATION OF OLD HEAD MISSION G-113, FLOWN 15 JAN 70

1. IMAGE QUALITY: THE OVERALL IMAGE QUALITY IS POOR TO FAIR.

PAGE 2 RUEADJU 0097 S E C R E T
THE MAJOR DEGRADING FACTOR IS IMAGE MOTION RESULTING FROM VEHICLE VIBRATION. THIS DEGRADATION IS MORE NOTICEABLE THAN ON PREVIOUS MISSIONS DUE TO THE USE OF A WIDER SLIT (0.10 INCH). THERE IS A RESULTANT LACK OF EDGE DEFINITION AT MAGNIFICATIONS OF 12X AND ABOVE. IN ADDITION THERE ARE AREAS WITHIN EACH FRAME THAT CONTAIN SMEARED IMAGERY (SCAN DIRECTION). THESE AREAS APPEAR AT RANDOM AND EXTEND ACROSS THE WIDTH OF THE FORMAT. THE INTERPRETATION SUITABILITY RANGES FROM POOR TO FAIR. CLOUD COVER OBSCURES APPROX. 15 PERCENT OF THE ENTIRE MISSION. EXAMINATION OF THE EXPOSURE CHARTS INDICATE THAT THE 0.10 INCH SLIT WIDTH USED ON THIS MISSION WAS CORRECT TO MAINTAIN PROPER EXPOSURE THROUGHOUT. HOWEVER, THE INCREASE IN APPARENT IMAGE MOTION SUGGESTS THAT A REDUCTION IN EXPOSURE DURATION IS NECESSARY. THIS CAN BE ACCOMPLISHED BY USING A WIDER BAND FILTER, A FASTERN FILM TYPE, OR PENETRATING AT HIGHER SOLAR ELEVATIONS. OF THESE ALTERNATIVES, THE FIRST TWO APPEAR TO BE THE MOST FEASABLE; HOWEVER, A CENTAIN AMOUNT OF TESTING SHOULD BE ACCOMPLISHED PRIOR TO THE USE OF EITHER ALTERNATIVE ON AN OPERATIONAL MISSION. THEREFORE, WE FEEL THAT THE USE OF A WRATTEN 12 OR WRATTEN 15 FILTER, OR A FASTER FILM TYPE, POSSIBLY SO-349, SHOULD BE INVESTIGATED.

ADVANCE CY SANITIZED WITH TEXT

PGAGE 3 RUEADJU 0097 S E C R E T

2. MISSION DATA
A. G-113, 19 JAN 70
B. IRIS II, 8011
C. A/C NO: 339
D. STEREO
E. T/O: 1220Z, C/ON: 1430Z
F. 3404, W-23A
G. MX-819-1, NRTSC

SECRET

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H. AVG GAMMA: 1.73
I. SLIT: 0.100 INCH
3. ORIGINAL NEGATIVE:
A. EXPOSURE: THE EXPOSURE RANGES FROM PROPERLY EXPOSED TO SLIGHTLY OVEREXPOSED AT THE END OF THE MISSION.
B. DENSITY AND CONTRAST: GENERALLY MEDIUM.
C. IMAGED DEGRADATIONS: A FISH-HOOK SHAPED AND "V"-SHAPED FOG PATTERN ARE PRESENT ON THIS MISSION. THEY ARE DESCRIBED IN THE EVALUATION OF G-107 (OUT 7580). NUMEROUS SLIT IMAGES (HEAVY IN DENSITY) ARE PRESENT, AT RANDOM, FROM FRAMES 471-500. THE IMAGERY IN THE SURROUNDING AREA IS SEVERELY SMEARED. THIS INDICATES THE POSSIBILITY THAT THE LENS CELL ASSEMBLY STOPPED AND

PAGE 4 RUEADJU 0097 S E C R E T
STARTED SCANNING AT THESE VARIOUS LOCATIONS. BANDING IS PRESENT AT THE SUPPLY END OF MOST FRAMES. HOWEVER, THERE ARE SEVERAL INSTANCES IN WHICH BANDING IS PRESENT THROUGHOUT THE FRAME.
D. PHYSICAL DEGRADATIONS: SIX HEAT SPLICES AND ONE ULTRASONIC SPLICE ARE PRESENT ON THE MISSION. FINE EMULSION SCRATCHES ARE PRESENT THROUGHOUT THE MISSION.
E. DATA RECORDING EQUIPMENT: ALL SYSTEMS FUNCTIONED PROPERLY.
F. OTHER: THE LAST TITLED FRAME IS 671, COUNTER 671.
GP-4. POSITIVES: THE PRINTING AND PROCESSING ARE GOOD.
GP-1
S E C R E T

END OF MESSAGE

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